

Detailed Design Document

Database Subsystem For Remote Authentication Using Facial Recognition

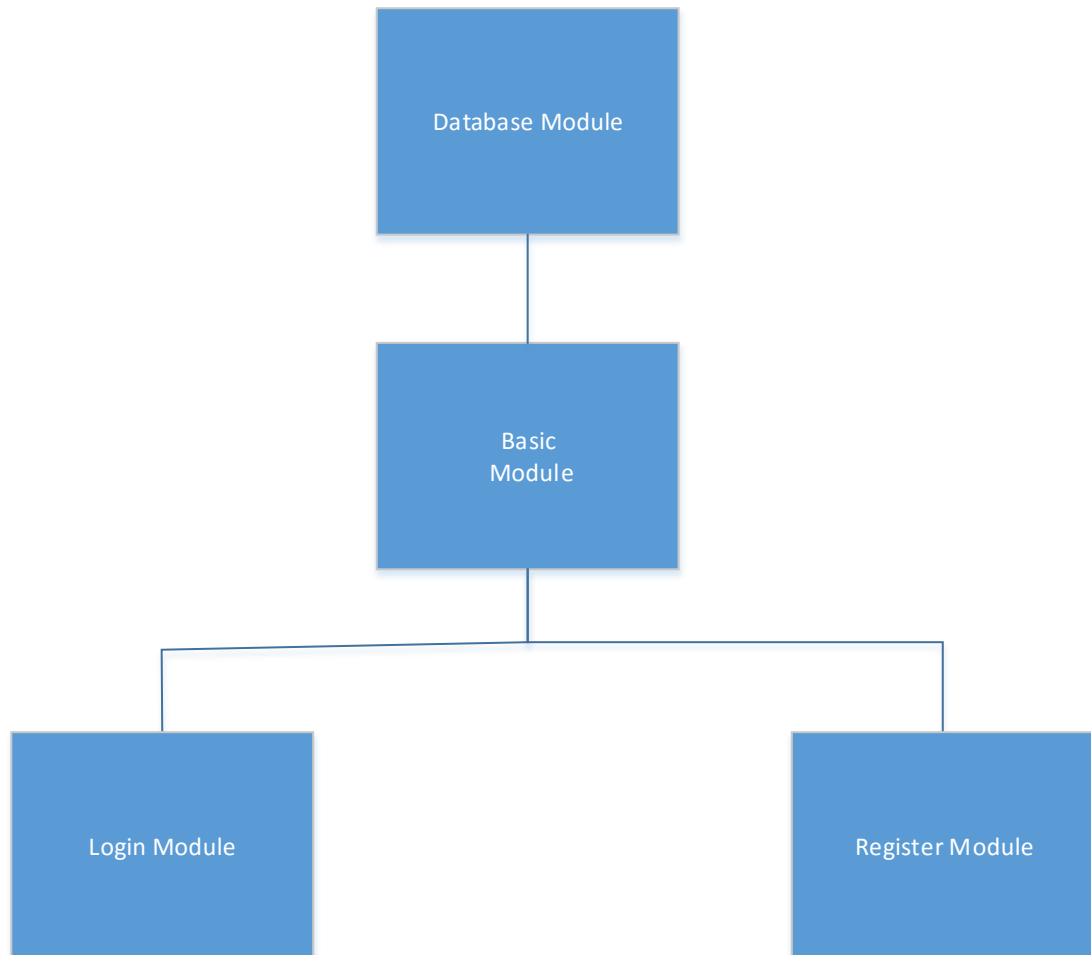
Revision History:

[illegible]

1. Scope

This standard is applied in team Empire (Jilin University)

2. Module design



Module design is shown in this diagram.

1. Basic Module include all the basic function used in Register Module and Login Module so the coupling of the system become lower.
2. Login Module is responsible for the process of user login in.
3. Register Module is responsible for the process of user register

3. Interface design

Internal interface

1. DB_connect : connect server database
2. DB_getUID : get user id from Jason
3. DB_createUser : create one user and insert data of the user to database
4. DB_checkPwd : query database and get the password of one user, then check whether it's the right password

5. DB_getFacID : get facial recognition engine name from Jason
6. DB_putFacID : insert feature into database
7. DB_putMoreInfo : insert more user's information into database
8. DB_log : write log information to text file

External interface

1. Login : User login
2. Register : User register

4. Error handling

If there is an error occurring in the system, the error will be logged in a text file and you can see the description in this file.